

SENSOR MAGNET FITTING APPARATUS IN MOTOR PROVIDED WITH SENSOR

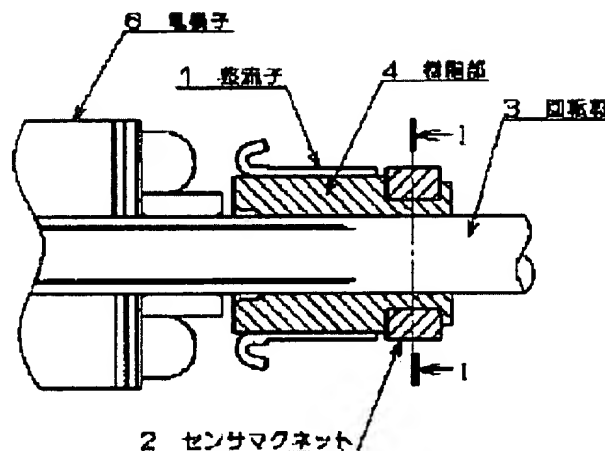
Patent number: JP11308812
Publication date: 1999-11-05
Inventor: NISHIMURA TOMOAKI; OKADA HIROKI; MIYATA DAISUKE
Applicant: AISIN SEIKI CO LTD
Classification:
 - international: H02K11/00; H02K23/66
 - european:
Application number: JP19980113408 19980423
Priority number(s):

Report a data error here

Abstract of JP11308812

PROBLEM TO BE SOLVED: To lighten labor for assembling a motor, and to reduce its manufacturing cost, by fixing a sensor magnet to the resin section of a commutator fixed to a shaft by insert molding.

SOLUTION: The inside diameter of a sensor magnet 2 is equal with the outside diameter of a shaft 3, and the sensor magnet 2 is magnetized so that its north poles and south poles may be axially symmetrical. And in the internal peripheral surface of the sensor magnet 2, a pair of axial-direction grooves are formed at the center between a north pole and a south pole. The annular sensor magnet 2 having the axial-direction grooves is fixed by insert molding to the resin section of a commutator 1, on the occasion of forming the commutator 1. The resin section 4 enters and passes the axial-direction grooves by this insert-molding from one side of the sensor magnet 2 to the other side of the sensor magnet 2, and extends to the other side of the sensor magnet 2, and the sensor magnet 2 is fixed to the resin section 4 in the axial and radial directions. Simultaneously with press-fitting and fixing the commutator 1 to the shaft 3, the sensor magnet 2 is fixed to the shaft 3. And labor for assembling the motor is lightened and its manufacturing cost is reduced.



Data supplied from the esp@cenet database - Patent Abstracts of Japan

BEST AVAILABLE COPY